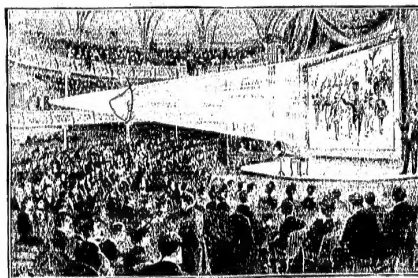


*Exhibit : no 21.  
JST  
Master*

'99 MODEL  
Combined Cineograph and Stereopticon



Edison Concert Phonograph and Cineograph in Combination

**Animated Pictures and Stereopticon Pictures**

LIFE SIZE

F. M. PRESCOTT

Edison Building, No. 341 Broad Street  
NEW YORK, N. Y., U. S. A.

SOLE AGENTS FOR NEW YORK

AMERICAN MUSEUM OF NATURAL HISTORY, 100th Street, New York

Edison Building, New York, N. Y. 10014

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## TERMS AND HOW TO ORDER

OUR terms are strictly *Spot Cash*. We extend no credit, nor do we lease or sell exclusive privileges of any kind. Prices are *Net*, sold absolutely without any restrictions as to territory.

We do not ship machines or films on approval, nor do we guarantee them for any special length of time. Every apparatus is warranted to be of superior workmanship, and none but the best materials are used in their manufacture. Defects, if reported immediately, will be remedied without charge.

We ship C. O. D. only on receipt of at least 25 per cent deposit to guarantee transportation charges both ways. No goods sent C. O. D. to points in *Foreign Countries* under any circumstances.

Purchasers can save return C. O. D. charges by remitting in full with order.

**Remit** by certified check, bank draft drawn on any responsible bank or banking house of New York, London or Paris, or by Express or P. O. Money Order payable to the order of F. M. PRESCOTT.

**Delivery Free on Board** cars or boats in *New York*, and no charge for packing, boxing or drayage. The greatest care is exercised in packing, and all shipments are made at purchaser's risk of damage in transit unless we are instructed to ship at risk of carrier. Foreign shipments are insured at customer's expense unless otherwise instructed.

To avoid errors be careful to give full address, and to state line of express company by which shipment should be made, and if for export, seaport to which goods should be shipped, and party to whom consigned.

F. M. PRESCOTT  
Edison Building  
New York, N. Y.

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## The Cineograph and Stereopticon Combined 1899 MODEL

THE CINEOGRAPH is an instrument by which instantaneous photographic pictures of moving objects, whether animate or inanimate, are brilliantly illuminated and displayed, greatly magnified, upon a screen so as to be visible to an assemblage of thousands of persons; not only this, but also exhibiting every motion of the object with an effect that is so startling and so true to nature as to almost force the observers to believe that they are viewing the reality and not its photographic reproduction.

In a word, everything possessing motion can be photographed for reproduction in the Cineograph. For instance: The waves breaking on the seashore—A troop of cavalry making a charge—Limited express railway train at a full speed—Men at work in a blacksmith shop—A boxing match—Barbershop scene—Ballot and skirt dancers, etc., etc., in almost endless profusion, as our list of subjects will indicate, and additional novelties are constantly being added.

Each subject is illustrated by instantaneous photographs, "snap shots" of the successive movements of the natural scene, or the living object, from about 800 to 2,500 different photographs being necessary to develop each design, and constitute what is called a "Film." The separate movements are photographed consecutively on this film, which is a transparent band of about  $1\frac{1}{4}$  inches wide, varying in length from about 50 feet upwards, according to the number of movements to be represented.

A simple yet effective mechanism, operated by hand, causes one of these films to pass swiftly through the optical system of the Cineograph, being at the same time brilliantly illuminated and the focus of the instrument projects the successive pictures, highly magnified, on a screen placed at a suitable distance. The pictures are cast upon the screen, one after the other, with lightning rapidity, but occupying always the same space; each combining with its predecessor so rapidly that the eye cannot perceive any break between them, and thus the effect of continuous action results. There is no jerk, lurch or vibration to destroy the harmonious continuity of action on which the beauty of this illusion so largely depends. This entire facility to nature is secured and the illusion is perfect.

The film, so well protected in their passage through the instrument, and the mechanism so accurate that notwithstanding the time with which they are propelled, they are not liable to be torn or scratched. As the film runs from 800 to 2,500 feet, depending upon the operation, it will ensure that they cannot be scratched or damaged, and that will insure a film very true to nature, and it can be seen in many instances that any scratch or chip of film on a film will be magnified 14 times, and even the hair of the magnified picture will be magnified 14 times.

The instrument is furnished with the Cineograph, and the film is made in a picture of a scene of a long distance.

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### ITS APPLICATION

This marvelous instrument, the latest product of its kind, is an improvement upon the earlier types, in that it combines both the utility of the Cinegraph for animated pictures and the stereopticon for regular stereopticon or illustrated song work. The Cinegraph projects apparently living pictures and actual scenes upon the canvas, or screen. It represents the very highest branch in the art of photography, that of bringing before the eye an exact life-size reproduction of living motion with all its accompanying effects of light, shade and expression.

The Stereopticon attachment supplies a long felt want in that it does away with a separate stereopticon lantern, which exhibitors heretofore have been obliged to use.

As will be seen from the illustration of the combined machine, it consists of two objective lenses, the one for the animated picture and the other for the stereopticon, with one condenser. The lamp and lamp house with condenser serve for both lenses, and while the operator on the right of the machine is placing upon the reels the next film to be shown, another operator, or the same one in fact, can throw upon the screen with the stereopticon attachment a brief description of the next film to be shown.

To illustrate clearly, we will describe the one as it is now exhibited in theater or operation.

The show curtain has fallen for the intermission, when suddenly the house is darkened and the following announcement is thrown on the screen by the stereopticon attachment: "Black Diamond Express."

After the audience have read the announcement upon the screen it will disappear, and before the eye of the audience a large window

"Black Diamond"

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anties of the circus clown; dances, contests of every description, acrobatic performances, military evolutions, scenes from the busy street, the field, the mountain, the river, and the ocean. All kinds of locomotion are represented, from the mule-train to the limited express, from the tiny canoe to the transatlantic "liner."

Consider the utility and the vast possibilities of this wonderful invention. Through its magic window we view the everyday life of far-away countries which we may never hope to visit. Famous bits of natural scenery are brought home to us. Comfortably seated at the theatre we watch the raging of a storm on land or sea. By the flying leaves, tossing branches, and dust-clouds, or by the wild, surging waters and driving spray we can measure its fury. We are interested, amused and instructed.

In comparison, the Cinegraph is as far superior to the ordinary magic lantern or stereopticon as the phonograph is to that crude toy doll which but imperfectly utters the one word "Mamma."

It is a boon to the manager of a theater, a powerful auxiliary to his stage effects, and a most entrancing divertissement for the usually tedious intermission.

He who lectures upon foreign lands or travels finds it of great assistance in illustrating his discourse; the scientist can but recognize its value in many ways, and the present comparatively reasonable price of the instrument cannot fail to bring it within reach of even private individuals for **Home Entertainment**.

As an exhibition feature it is always immensely popular, and in an inconceivably short space of time returns to its owner, not only the entire first cost, but a handsome profit on both the investment and his time.

### THE STEREOPTICON ATTACHMENT

We are pleased to state that besides being used for announcing the name and description of the films to be shown, it can also be used independently and without the Cinegraph, for showing regular stereopticon views, and also for illustrated songs, which are becoming so popular in many of the theaters and vaudeville shows. While the artist is singing some popular selection from the stage, the most interesting incidents in the song are illustrated upon the screen on the same platform with the singer.

### A Performance with the Cinegraph can be given for Two Hours

The Cinegraph is a machine which can be used for a performance of two hours. It is a machine which can be used for a performance of two hours. It is a machine which can be used for a performance of two hours. It is a machine which can be used for a performance of two hours.

*In Telegraphing Orders use the Code Words in Italics*

One hour after its arrival in the town where the exhibition is to be given will suffice to complete all necessary arrangements. All that need be done is to take it out of the box, place it on the platform, put in your film, and you need only to turn the crank to give the finest exhibition that was ever had from a life-motion picture machine.

To use stereopticon slides in connection with the 1899 Model Cinegraph, show an animated picture first, then move the lamp house, which takes but a second, and your machine is set to show stereopticon views. There being thousands of stereopticon views in the market, the cost of which is from \$3.00 per dozen and upwards, you can thus give an entertainment never before attempted by your predecessors. We are daily taking stereopticon subjects, which are truly wonderful and are warranted to please the most critical audience.

The 1869 Model of the Cinégraph is a most wonderful piece of mechanism, and the films, to say the least, are masterpieces of photography. There is no reason why, with an 1869 Model Cinégraph and Stereopticon combined, you should not make a small fortune. Now is the time to reap a harvest, as the country is wild to witness the representations of the marvelous life-motion-machines. —They appeal to the refined and cultured, and the merchant and his wife and children are amused and instructed thereby.

You can safely apply for dates to churches, schools, stores, lodges, clubs or theatres and contract to give an entertainment at one hour's notice. The Cinegraph is so constructed that you can give a performance with electric light, calcium light or acetylene gas. With electric or calcium light you get a picture 16 x 20 feet. With acetylene gas you get a picture suitable for parlor use.

**Your Own or your Family's Picture taken**

[illegible]

On the other hand, the  $\mathcal{H}_2$  norm of the system  $\mathcal{G}_1$  is given by

$$\|\mathcal{G}_1\|_{\mathcal{H}_2}^2 = \text{trace}(\mathbf{M}_1) = \text{trace}(\mathbf{M}_2) = \text{trace}(\mathbf{M}_3) = \text{trace}(\mathbf{M}_4) = 1$$

for all values of  $\alpha$ .

We are prepared at a moment's notice to send our operators to take views of your stores, halls and workrooms, at a moderate cost; also your own or your family's picture in life motion.

**Advantages of the 1899 Model Cineograph  
over all other Picture-Projecting  
Machines are :**

FIRST. Being scientific opticians as well as mathematical instrument makers, we combine in the Cinégraph the mechanical perfection of a microscope body as well as the highest optical science in the lenses used, thereby insuring a clear, bright, undistorted picture as well as precision of movement heretofore unattained in other instruments of this class. All lenses for the Cinégraph are ground under our personal supervision, which accounts for the sharpness and beauty of the pictures produced.

SECOND.—The Cinegraph is so constructed that Edison's or any other make of films can be used. When the machine is not desired to be in operation (during the intervals of an entertainment) the light may remain in full force, as the shutter on the tube leading directly from the condenser has an ingenious door which protects the film

THIRD—The 1899 Model Cineograph can be put up or removed in any theatre or hall in less than ten minutes.

For retail. It will be seen that the "micrograph" has been constructed to weigh as little as possible, and is well adapted for traveling purposes. It is so very wonderful and yet so simple in its construction that any man or even a boy can easily operate it.

FIGURE 10. The Cinegraph can be operated with both electric light and calcium light with equal result.

It is also important to remind us that the Communist Party's response to the attack, by and large, has simply thrown its hands up and said, "Let's let the law move in." People are not going to be able to do anything about this kind of thing, here and there, looking at it from without. People come in and out, and one day we will find people at a distance who are rising up in our midst, in our country. In fact, I believe, they may be the work of a person or the work of a small group of people who are working with us in the extreme.

We would suggest that there, where it should be rather, there none should permit the condition in any way to diminish the duty of the men and the responsibility of the other members of the community. A combination of any kind should be avoided. With the employed men there should be no division of labor, and a desire to continue your education, and to keep the mind active, is a duty of the men and the women.

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## New Improved Cineograph and Stereopticon Combined, 1899 Model

A FEW REASONS FOR OUR JUST CLAIM THAT OUR 1899 MODEL CINE-  
OGRAPH AND STEREOPTICON COMBINED IS BEYOND A DOUBT  
THE KING OF ALL LIFE-MOTION PICTURE MACHINES

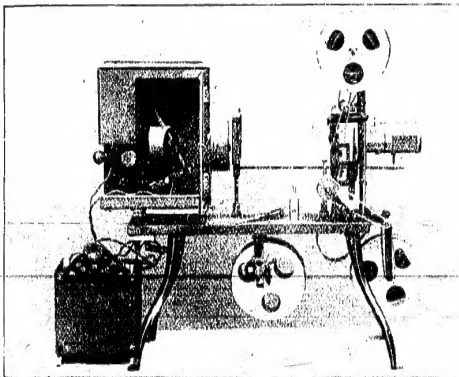


FIG. 1. VIEW OF THE 1899 MODEL CINEOGRAPH AND STEREOPTICON COMBINED.

Experts agree in pronouncing it the Best, Simplest, Strongest and Easiest  
Operated Instrument on the market.

1. It will operate by hand, or running on Electric Motors.
2. It will project pictures of any size, and in any position.
3. The pictures are shown without vibration on the screen.
4. The pictures are shown in the same position as they were taken, and are not distorted in any way.
5. The pictures are shown in the same position as they were taken, and are not distorted in any way.
6. The pictures are shown in the same position as they were taken, and are not distorted in any way.

### STEADINESS

The great objection to life-motion machines heretofore has been their unsteady motion when projecting pictures on the screen. While we partly overcame the deficiency in our 1898 Model, yet it was by far the best on the market. This was conceded by the manufacturers of the numerous machines offered to the public during the year 1898.

In our 1899 Model we have succeeded in eliminating this great objection, which to a certain extent marred the beauty of the projected picture. Our 1899 Model Cineograph and Stereopticon Combined is absolutely perfect in that the picture is steady, **does not jump**, but remains as it were **solidly** in place on the screen. The vibration having been entirely eliminated, there appears a steady picture on the screen, and the effect obtained does not affect or hurt the eyes, as is common with other makes of machines. Indeed, it is utterly impossible with our advanced improvements for the picture to move from the point at which the operator has placed it. This feature alone recommends it to prospective purchasers who want the best that can be had and who will accept none other. We are just 45 years ahead of our competitors with this new feature alone, which suggests the progressiveness of our product.

### NOISELESS

A noiseless projecting machine has heretofore been considered an impossibility. All the combined machines on the market have been such that in many cases they were considered far in advance of the best noise-making machine when in operation, which annoying the audience.

After a full year's experimenting with various forms of mechanism, we have succeeded in building our most successful projection in picture machine, a most marvelous instrument, which compares favorably with the high-toned, costly machines. Our 1899 Model is adapted for the highest quality of pictures, and is the only machine that can be adapted for the projection of the pictures on the screen, the sound of the machine is so soft that every word of the picture is heard distinctly, and the picture is not affected in any way that would make any one. The picture is, and remains, in its place.

### SAFETY

One of the principal objections to the use of the 1899 Model is the impossibility of burning the films. The film is so protected that it is perfectly safe, and the film is so protected that it is perfectly safe. The picture is so protected that it is perfectly safe, and the picture is so protected that it is perfectly safe.

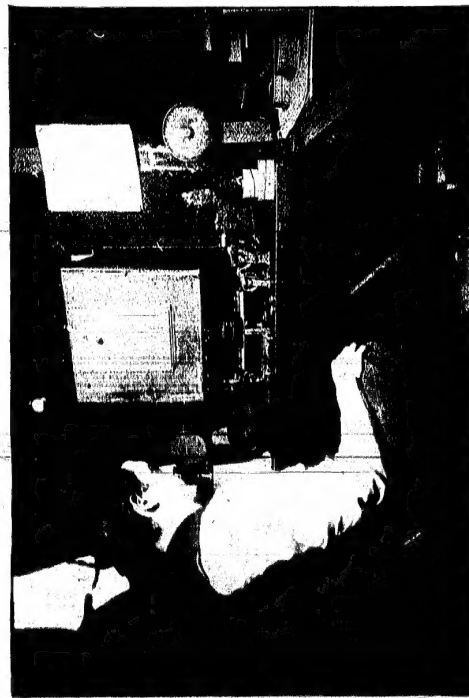


per year, as the operator can now concentrate his entire time and attention to the projected picture, feeling secure in the thought that the film is perfectly safe, and that by no unforeseen occurrence can it be ruined.



### WEIGHT

An objectionable feature with picture machines has also been that their weight was such as to make it impossible in some cases to move them conveniently from one town to another with ease and despatch.



While our early Model weighed less than the popularly known Model which weighed away over a hundred pounds, it was still a heavy machine to handle. It weighed in at around the weight of a light car, 25 pounds.

12— *In Telegraphing Orders use the Code Words in Italics*

so light and compact that it can be placed in an ordinary trunk with room to spare. This is a strong feature in itself, as it is thus adapted for quick moving, where one night stands are made.

A particular advantage contained in the 1899 Model Cineograph and Stereophon Combined is that films from 1,000 feet or more in length can be used thereon from a reel. "The film runs off of the top reel and rewinds while the machine is in motion on the lower reel (*see illustration*). There is also a rewinder attached to the oak base, by the use of which the operator can rewind a film of 1,000 feet in less than two minutes.

## ADAPTABILITY

The complete instrument is mounted on a handsome polished oak base, which can be placed on an ordinary table or stand. (We do not use tin spoils, which mar films.)

## LARGE PICTURE

It projects a picture even greater than life size, if desired, without distortion or indistinctness, and also without the use of special gauge film, being made to standard. It is fitted with a superior objective lens, giving a field sixteen feet high by twenty feet wide; proportionately larger or smaller pictures may be had by increasing or decreasing the distance. A special lens is also supplied where a larger picture than dimensions specified is wanted.

## COLORED EFFECTS

By means of special attachments, various beautiful colored effect lenses are produced which give additional realism to the scene.

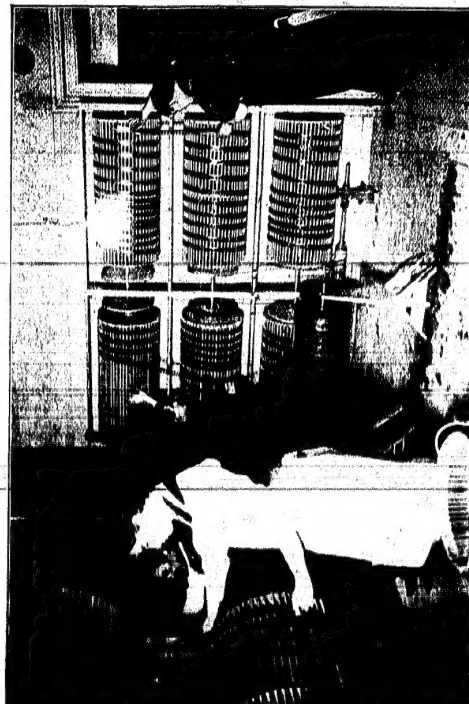
**NO FLICKERING**

A bad cut right without any under-cut, the keratin is produced by a newly developed head capsule, which is produced within a few days and is suitable for use on direct or indirect contact. Every body of the direct and indirect contact is being brought to the surface of the body, from which the way to the surface is determined.

NO BURNING OF FILMS

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condensed ray of light, which ignites same instantly unless the film is in motion. By means of our new attachment, an isinglass door, the light can be focused on film indefinitely without burning same; besides



enabling agents to produce cell proteins, which, when in turn, stimulate agents to become suddenly animated, produce a stimulus effect.

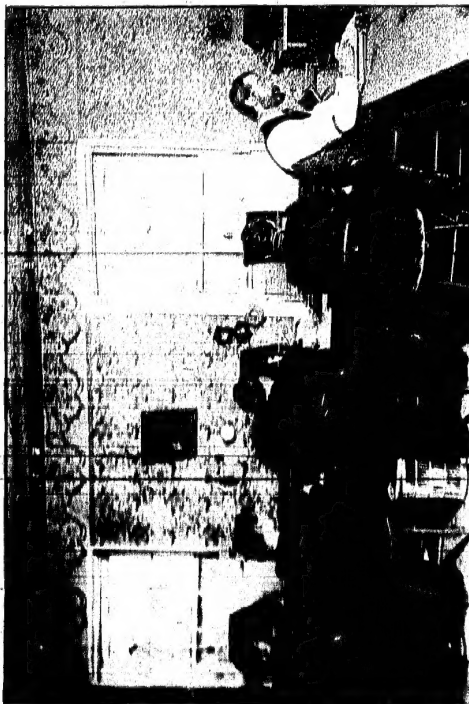
$$T = 12.74 \text{ sec} \quad \sigma_T = 0.25 \text{ sec} \quad T_{\text{min}} = 12.23 \text{ sec} \quad T_{\text{max}} = 13.25 \text{ sec} \quad \Delta T = 1.02 \text{ sec} \quad \Delta T_{\text{max}} = 1.02 \text{ sec}$$

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In Telegraphing Orders use the Code Words in Italics

### DIMENSIONS

When set up ready for operation: Length, 27 inches; width, 15 inches; height, 28 inches. Packed for shipment: Case length, 29



ready placed in an ordinary truck

AT HOME CAN BE

### CHEAPNESS

The Cinégraph, 1899 Model, is undoubtedly the **best** and consequently the **cheapest machine on the market**.

### PORTABILITY

It is strongly built, compact and simple, both in construction and operation. It weighs about twenty-five pounds complete.

### LIGHT

Independence of electricity for motive power, if necessary, for light. A calcium burner can easily be attached and will give excellent results. Electric and calcium light lamps show a picture 16 x 20 feet. One of each is given **free of charge** with each machine.

### CALCIUM LIGHT

A Calcium Light Lamp is presented with the 1899 Model Cinégraph free of charge. This enables the operator to use the machine where electric light is not to be had. Oxygen and hydrogen gas is furnished in tanks by different manufacturers in all large cities and towns. The cost of filling tanks is about five dollars, and is sufficient to last about nine days. You can have the tanks renewed as soon as you need them without any trouble. Manufacturers of this gas will ship it to any part of the country.

### POWER

Hand power, which can always be relied upon to do the work and do it properly, with which taking effect, can be accomplished and the speed of reproduction can be regulated to infinity in conformity with the action of the subject.

### ECONOMY

A man cannot who does not know the machine, that operating, a little the shaft and a wheel economy. No constant replacing of expensive and unreliable parts, or any more and, with the economy, money and loss of time.

### CLEARNESS

The clearness of the film, and the clearness of the subject in the picture, as well as the clarity of the image, are the only factors in the reproduction.



### PRICE LIST, 1899 MODEL

**Cineograph and Stereopticon Combined, \$125**

Code word, *Gonoplax*.

INCLUDING

INCLUDING

1. Superior Hand-power Mechanism.
2. Wide Angle Objective Lens for Life-Motion Picture.
3. Special Ground Achromatic Lens for Stereopticon Pictures.
4. One Pair Extra Quality Condensing Lenses.
5. Extra Lens for Enlarging Pictures.
6. Rapid Improved Framing Device.
7. Improved Hand-feed Arc Lamp.
8. Calcium Light Lamp.
9. "Russia" Iron Lamp House.
10. Russia Iron Funnel.
11. New Improved Adjustable Rheostat.
12. Three Extra Large Reels.
13. Hand-polished Film Spools, will not scratch films.
14. Mica Window, for protecting film when not in operation.
15. Set of Slides for producing colored effects.
16. Highly Nickeled Oil Can.
17. Screw Driver.
18. Wrench.
19. Film Cement.
20. Printed Directions for Operating, in English or Spanish.
21. Walnut finish hardwood Case for carrying the mechanism of the Cinegraph.

(Glass Slides, with name of films.)	<i>Black</i>	each	\$0.50
Standard Films, clear (length about 40 ft.)	<i>Black</i>	each	75
" " (length about 100 ft.)	<i>Black</i>	each	15.00
" " (length about 150 ft.)	<i>Black</i>	each	22.50

**Extra charge for coloring** dummies and similar subjects varies from \$4 to \$15 per film, according to subject and length of strip. In the majority of cases, however, the minimum charge is made. Colored films, *thruout*

As our list of **Film Strips** now includes over 400 Subjects, and is being constantly added to and revised, we published it separately, and issue descriptive bulletins of new subjects as photographed.

**Extra Lens, use in 135 ft. projection: *Thematic*..... \$14.00**

**Combined Slide Carrier (Hyponom.)**

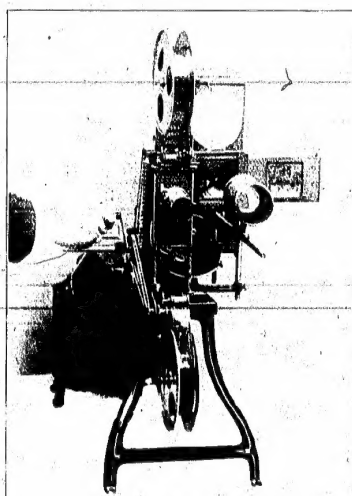
**Dissolving Carriers:** *Isopropanol*, per part.

**Self-Centering Slide Carriers** 16 pages, one per page. . . . \$1.00  
**Slide Box for Holding An Object** . . . . . \$1.00

Slide Box for Holding 30 Plates (*Fig. 1*)

STUDY BOX FOR MONITORING AND PROTECTING ENVIRONMENT

Dr. H. Brewster, Esq., Kingston, N. Y.



THESE RESEARCHES HAVE BEEN FINANCED BY THE INSTITUTIONAL INVESTMENT

*I am the latest I have in antiquity & literature.*

By M. Brewster, Esq., Recorder of the County of New York.

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Blank Film Perforated, for Spacing ( <i>Abstauning</i> ), per foot.....	\$0 15
Film-mender ( <i>Abstaund</i> ).....	1 00
Film Cement ( <i>Abstauben</i> ), per bottle.....	25
Imported Carbons, for Lamp (extra quality) ( <i>Abstecken</i> ) per 100.....	5 00
Electrotype, same as frontispiece ( <i>Abstecken</i> ).....	1 25
Half-tone Electrotype of Cineograph, page 16 ( <i>Abstecken</i> ).....	1 25
Half-tone Electrotype of Combined Machine, page 8 ( <i>Abstecken</i> ).....	1 25
All other Electrotypes in Catalogue ( <i>Abstecken</i> ), each.....	1 25
Safety Fuse-block (20 ampere fuse) ( <i>Abstecken</i> ), per foot.....	50
Lamp Cord, double, for connecting to main circuit ( <i>Abstecken</i> ), per foot.....	08
Oil Can, nicked, long neck ( <i>Abstecken</i> ).....	25
Oil (best refined) ( <i>Abstecken</i> ), per bottle.....	25
Knife Switch ( <i>Abstecken</i> ).....	1 50

#### PORTABLE ELECTRIC PLANT FOR FURNISHING LIGHT FOR THE COMBINED CINEOGRAPH AND STEREOPTICON

We have had so many inquiries for such a plant, where it has not been possible to procure electric light, that we have decided to list the following outfit, which will be entirely satisfactory:

One 4½ kilowatt, 36 ampere, 120 volt, direct current dynamo; complete with driving pulley, 6½ inch diameter, 3 inch face; speed, 1,800 revolutions per minute; net weight, 560 lbs.; floor space required, 11 x 19 inches ( <i>Abstecken</i> ), price.....	\$250 00
One pressed card rheostat for dynamo ( <i>Abstecken</i> ).....	20 00
One 120-volt meter ( <i>Abstecken</i> ).....	50 00
One 40-ampere ammeter ( <i>Abstecken</i> ).....	40 00
One double pole single throw 40-ampere switch ( <i>Abstecken</i> ).....	10 00
300 feet No. 6 double rubber-covered wire for connecting dynamo to projectoscope, at 5 cents per foot ( <i>Abstecken</i> ).....	15 00
One six horse-power combined gasoline engine and boiler, capable of operating the 4½ kilowatt dynamo at its full capacity; weight 1,200 lbs., complete with driving pulley, of sufficient size to operate dynamo at required speed ( <i>Abstecken</i> ); price, complete.....	80 00
One double electric leather belt to feet x 12 inches, for connecting dynamo to engine ( <i>Abstecken</i> ).....	6 00

Price, complete, \$880.00. *Abstecken*

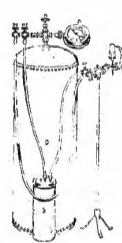
The foregoing is all that is necessary for a complete electric light outfit for furnishing the required amount of light for a combined Cineograph and Stereopticon. As will be seen, the entire outfit weighs not about 3,000 lbs., and, on account of this weight, which cannot be reduced by using smaller machines, it will not be found suitable for traveling, especially in countries where there are no railroads and poor transportation facilities. We recommend this electric light outfit only where it can be installed as a stationary plant in a large hall, theater, or other building. There it will give most excellent results. But for those who wish a portable outfit with which to travel from town to town, we would recommend the calcium or acetylene equipment described hereafter.

For the latest Edison machine see sheet 10

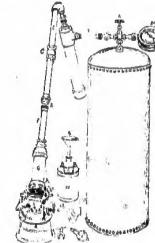
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19

### The Improved Portable Calcium Light Outfit FOR LIFE-MOTION PICTURES AND STEREOPTICON



SHOWS THE OUTFIT IN OPERATION



GAS MAKING PROCESS

Our object in manufacturing these improved calcium light outfits is owing to the great number of requests for a cheap, but practical, portable apparatus for use on life-motion picture machines and stereopticon, thus doing away with the annoyance of having the gas shipped from the manufacturers to the towns in which the exhibition may be given.

*Free from annoyance.*—You can make your own gas whenever and wherever you need it in less than one-half hour. In twenty minutes you can make enough gas to last for at least two hours or more.

*A valuable substitute for electricity.*—It is a most important feature of a showman's success that he can control his light under any and all circumstances. Here it is beyond a doubt. Where electricity cannot be had, you are master of the situation in a moment, and can give a brilliant performance, being perfectly independent in your own resources, which are adequate with an Improved Calcium Light Outfit.

One line will be consumed during an evening's entertainment of one hour and a half.

This calcium-light equipment will give most excellent results for use with the stereopticon attachment.

The above outfit for \$750.00 comprises all that is necessary for the making of the gases and using calcium light with the Cineograph. About 1,000 candle-power will be obtained, which gives an exceedingly satisfactory result, pictures clear, sharp and very distinct. Exceeding electricity, calcium light has no equal as an illuminating power for the Cineograph and Stereopticon. This outfit, with metal tank, is superior to the old-fashioned canvas gas bag arrangements, which were bulky and always leaking.

*THESE INCLUDES:* Oxygen Cylinder, 102 lb., best improved for use with Stereopticon, Pressure Gauge, Needle Valve, Wash Bath, Filling Station, Gasoline Can, Wrench, Funnel, and one safety Valve, which prevents the water from mixing with the chemicals. Chemicals Prepared, Times sufficient to make gas, including for city consumption of two hours each. Printed Instruction.

Price, complete, \$750.00.

Extra Limes, per dozen, 75¢.

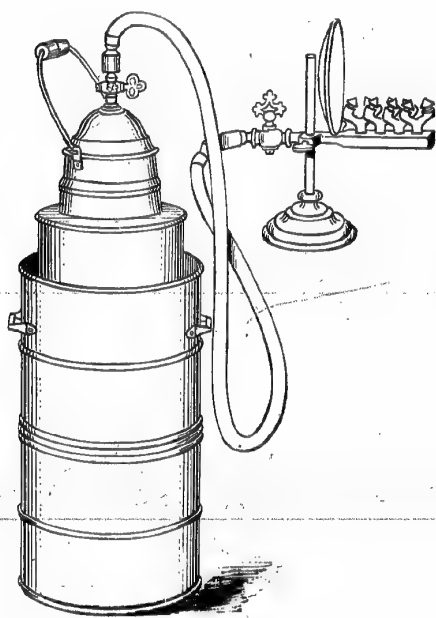
Extra Chemicals, per dozen, 75¢.

For the latest Edison machine see sheet 10

F. M. PRESCOTT, Edison Building, New York, N. Y.

## ACETYLENE GAS

The New Light for Cineograph, Lantern Projection and Optical Experiments



Acetylene outfit, complete for use with combined Cineograph and optical lantern, including:

- 1 Gasometer
- Rubber Connecting Tube
- 1 Light Jet Burner with Reflector
- 100 lbs. Calcium Carbide
- Instructions for Making and Using

Price, complete \$35.00.

Extra charge for freight, limited only to express.

For the full description and details address

This gas is generated from carbide, by contact with water. Carbide is now on the market and can be procured at a reasonable price in suitable quantities. For lantern projection, it is convenient to employ a generator which acts automatically and regulates the supply of gas to the burner while lighted. This generator consists of two cylinders, the lower one being the tank which holds the water necessary to generate the gas; the upper one, fitting within the tank, contains the gasometer below, which is the net for supporting the carbide. The rise and fall of the net in and out of the water is regulated by the amount of gas in the gasometer, and this automatic movement, in its turn, replenishes the gasometer as required, with a constant pressure of about two inches. The flow of gas is regulated by a stop-cock at the top of the gasometer. This light is very white and penetrating, and from the burner gives about 250 candle power, or about half that of the lime light, and more than twice of petroleum. With the ordinary care given to gas, acetylene used in this manner is safe, and it is economical, for calcium carbide can now be had at such a price as to make this light little more expensive than the oil. Transportation is also rendered a small consideration, for this only concerns the carbide, which may be shipped from one place to another with safety and without inconvenience.

For those who wish a simple, portable, and satisfactory independent light outfit, we would recommend the Acetylene Outfit, which costs, complete and ready for use, \$35.00.

The gas is made and ready for use in one minute by simply placing a small quantity of the calcium carbide in the generator, which is partially filled with water, the action of the water on the calcium carbide freeing the gas, which, by the way, is not dangerous.

The effect of this light with the Cineograph in a well-darkened room is amazing, considering the simplicity and cheapness of the outfit. We especially recommend it where electricity cannot be obtained, or where it is inconvenient to procure calcium light.

The best results are obtained by using the outfit at night in a small room *absolutely dark* and at not over 25 to 30 feet projection, using films with a thin background, which have few figures and are without fine detail.

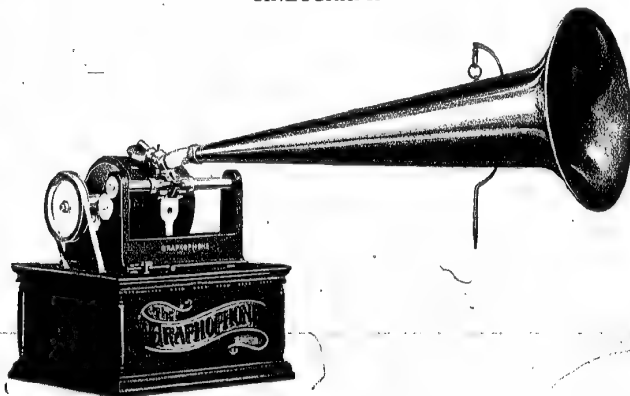
Used with the stereopticon the acetylene light gives as satisfactory results as could be desired.

Complete instructions, in English or Spanish, accompany the equipment making it exceedingly easy to understand and operate.

F. M. Prescott, Edison Building, New York, N. Y.

22 In Telegraphing Orders use the Code Words in Italics

### GRAPHOPHONE ATTACHMENT FOR THE CINEOGRAPH



GRAPHOPHONE GRAND

With the advent of the Graphophone Grand, which reproduces as loud and natural as the human voice or an orchestra or band, a combined cineograph and graphophone is now possible, so that the audience may hear as well as see the performance.

By the use of the following outfit, as illustrated above, in connection with the cineograph—musical records, harmonized to the films of dancers or of marching, can be produced so that the audience may see the dancing or the marching, and hear the music to the steps at the same time. The Graphophone is placed on the stage, and the audience can hear the music plainly. The Graphophone is operated independently upon the stage by the lecturer. The Cineograph being operated in the rear of the hall or room by an assistant. Both operators working in conjunction. The outfit is as follows:

- 1 Graphophone, large, with clockwork motor
- 1 Graphophone Horn
- 1 Nickel Plate Folding stand
- 1 12 in. Portable Carrying Case for Record

Price, \$125.00, C.R.K.V.

For the latest Edison instructions, address

*F.M. Prescott, Edison Inc., New York*

In Telegraphing Orders use the Code Words in Italics 23

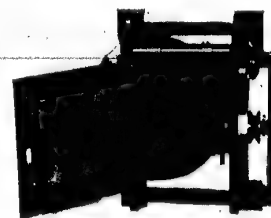
### OUTFIT FOR TAKING AND MAKING FILM SUBJECTS FOR PROJECTION

SOLD FOR EXPORT ONLY



KINETOGRAPH, OR CAMERA FOR TAKING PICTURES—CAMERA WITH BACK REMOVED SHOWING INTERIOR

As will be seen by the illustration, this machine is operated by a small hand-power motor, each revolution of the winding crank making 16 exposures of the film. As there are 46 exposures to the second in the Standard Edison pictures, it is necessary to make three complete revolutions of the winding crank in one second. This may easily be done; and with a little practice one can tell when he has the machine up to the proper speed.



KINETOGRAPH, OR CAMERA FOR TAKING PICTURES—CAMERA WITH BACK REMOVED SHOWING INTERIOR

The mechanism of the camera is easily accessible by removing the back. The clockwork mechanism is visible, the camera being in the center of the film.

*F.M. Prescott, Edison Inc., New York*

The camera is light, weighing less than twenty pounds, and may be carried easily. After once filling the reels with the films it is ready for operation at any moment. The machine takes pictures on film of Standard Edison width and size.

Price, complete, \$175.00, *alcabazados*



Price, complete, \$125.00.

*Keywords:*

This Printing Machine for printing Positive Films, consists of a light-tight box with a removable front. There are two spools, on one of which is wound the negative with the positive film under it. The ends are then drawn through the different devices until the two ends are placed upon the revolving crank. By turning a winding strap on the reverse side of the machine (not shown in the illustration) the films are fed past the light aperture, where the imprint is left upon the positive. A means of an electric light placed in front of the light aperture, positive and negative, either during the day or night, will give a very rapid rate. This machine prints films of Edison Standard and non-standard.

Price, complete, \$100.00.



CRITIC: MACHINER

For the last 12 years, my attention has been

These are wooden tubs of an oblong shape, in each of which revolves a reel. The developing liquids are placed in the tub, so that the bottom of the reel washes in the developing fluid. By winding the film upon the reel and revolving the reel the film passes through the developer liquid and receives the necessary treatment for development.

**Price for the four tubs, complete, \$100.00.** *Accompany*

Camera ( <i>Accompioni</i> ).....	\$75 00
Perforating Machine ( <i>Accampo</i> ).....	125 00
Printing Machine ( <i>Accumulo</i> ).....	100 00
Four Developing Tubs and Two Reels ( <i>Accanunno</i> ).....	100 00
	<hr/> \$300 00

Outfit, complete, as described above, \$500.00. *Accompany*

## CHEMICALS

We would recommend the following list and quantity of chemicals for use with our photographic outfit, the quantity being sufficient to use with 20 packages each of positive and negative film.

-	1 lb of Metal ( <i>Hydrargyrum</i> )	87 5
-	2 lbs. Hydrargyrum ( <i>Hydrargyrum</i> )	14 2
20	25 Sulphate of Soda ( <i>Hydrargyrum</i> )	1 50
21	Carbonate of Soda ( <i>Hydrargyrum</i> )	75
22	Hydro Soda ( <i>Hydrargyrum</i> )	2 00
23	Glycerine ( <i>Glycerina</i> )	1 00
		84 2

Price, complete, Chemical Oxygen ~~27.00~~ 25.00 *h.c.*

Full instructions accompany the apparatus, showing how the athletes should be used. We simply list them here in case any customer should desire to purchase them, and to show their cost.

In addition to the above outfit, which is complete, and all that is required, except developing, hammers, a quantity of putty, and a long thin saw, is the following: This comes under the category of standard Edison work, and is performed in strips 36 about 100 ft. long, as a rule, per job, rather than in sections, and usually of the cent. 'Sigsbee Edison perforated' type. These are cut in feet, and are

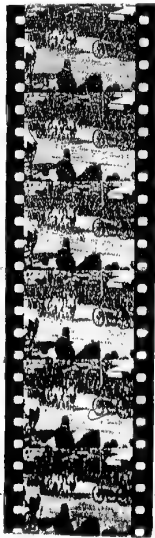
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*J. H. J.*



knowledge of photography will have no difficulty in taking pictures and making films of their own local views. Developing chemicals may be purchased at any drug store.

We illustrate two short lengths of film to show how they are taken. Observe that there is apparently no difference between the different pictures in each strip. This is on account of their being taken at the rapid rate of 46 per



second. It is necessary to look at one or more seconds exposure of pictures in order to get a difference between them.

We recommend this picture-taking outfit especially for export use, as we know that many foreign customers have beautiful local views which could be very profitable. Then outfit should they be able to reproduce them on the screen by means of their Cine-graph.

Special apparatus can be made on order for making films of different widths and perforations. Write for prices, giving specifications of what is required. Code word: *Positive film, Kodak negative film, Kodak*

*For the best film in the world*

## OUTFITS

For the guidance of prospective purchasers we have grouped in the form of "Outfits" those articles which our experience would indicate to be necessary for a complete exhibit. Should purchasers order from this list without specifying film subjects desired, we will use our best judgment in making selection of most attractive and interesting scenes.

*24 In ordering by Telegraph use name as Code Word.*

**No. 1.** "99" Model Cinegraph and Combined Stereopticon, complete, for Electric Light Circuit.

- 12 Standard 40-ft. Films.
- 1 Film-mender and Cement.
- 1 50-ft. Film, colored.
- 50 Extra Lamp Carbons (import ed)
- 13 Slides Announcement for Stereopticon

**Price, \$295.00.** Code word: *In color*

**No. 11.** same outfit as No. 1 but without Stereopticon Attachment and Slides

**Price, \$205.00.** Code word: *Acetate film*

**No. 2.** outfit same as No. 1, with complete Calcium Light Outfit

**Price, \$310.00.** Code word: *Acetate*

**No. 15.** same outfit as No. 1, with Calcium Light Outfit in addition

**Price, \$280.00.** Code word: *In color*

**No. 3.** outfit same as No. 1, with complete Acetylene Light Outfit in addition

**Price, \$270.00.** Code word: *In color*

**No. 10.** outfit same as No. 1, but with Acetylene Light Outfit in addition

**Price, \$240.00.** Code word: *In color*

**No. 4.** "99" Model Cinegraph and Combined Stereopticon, complete, for Electric Light Circuit

- 22 Standard 40-ft. Film
- 1 Film-mender and Cement
- 1 50-ft. Film, colored
- 1 50 Extra Lamp Carbons (import ed)
- 1 Safety Fuse block and 20 feet Double Lamp
- 14 Announcements

**Price, \$335.00.** Code word: *In color*

**No. 17.** outfit same as No. 4 but without Stereopticon Attachment and Slides

**Price, \$240.00.** Code word: *In color*

No. 5, outfit same as No. 4, with complete Calcium Light Outfit in addition.  
Price, \$410.00. Code word, *Accedente*.

No. 18, outfit same as No. 17, but with Calcium Light Outfit in addition.  
Price, \$375.00. Code word, *Accedente*.

No. 6, outfit same as No. 4, with complete Acetylene Light Outfit in addition.  
Price, \$370.00. Code word, *Accedentes*.

No. 19, outfit same as No. 17, but with complete Acetylene Light Outfit in addition.  
Price, \$395.00. Code word, *Accedentes*.

No. 7, "99" Model Cinegraph and Combined Stereopticon, complete for Electric Light Circuit.

20 Standard 50-ft. Films,  
5 " 50-ft. " colored,  
4 " 150-ft. "  
1 Film-sender and Cement,  
100 feet Blank Film for spacing,  
200 Extra Carbons (imported),  
Safety Fuse-block (20-ampere fuse),  
25 feet Double Lamp-cord,  
30 Announcement Slides.

Price, \$400.00. Code word, *Accedentes*.

No. 20, outfit same as No. 7, but without Stereopticon Attachment and Slides.  
Price, \$150.00. Code word, *Accedentes*.

No. 8, outfit same as No. 7, with complete Calcium Light Outfit in addition.  
Price, \$505.00. Code word, *Accedentes*.

No. 21, outfit same as No. 20, but with complete Calcium Light Outfit in addition.  
Price, \$525.00. Code word, *Accedentes*.

No. 9, outfit same as No. 7, with complete Acetylene Outfit in addition.  
Price, \$525.00. Code word, *Accedentes*.

No. 22, outfit same as No. 20, but with complete Acetylene Light Outfit in addition.  
Price, \$185.00. Code word, *Accedentes*.

Our Acetylene outfit slides are in English. If wanted in any other language the price will be \$100 each set, and if ordered differently in any amount extra price for shipping. Different language will be added to the price of that outfit and slides. Imported in English outfit is related to the outfit.

## ELECTROTYPES FOR SHOW-BILLS

We can furnish an electrotpe, the same as on the frontispiece of this catalogue, either half-tone for fine work or a line cut for newspaper or show-bill work, size 8 by 14 inches. Price, \$5.00. Code word, *Accedentes*.

## NEW COMPLETE MANUAL OF THE EDISON PHONOGRAPH

In English or Spanish—Authorized Version

Twenty-seven Original Drawings.  
Full-page Portrait (reproduction) of Mr. Edison.  
Introduction by Mr. Edison.  
Ninety-two pages of text.  
Describes everything.  
Illustrates everything.  
Bound in black and gold.  
Heavy paper, wide margins, and marginal heads.  
Has 200 numbered references to every working part of Phonograph.  
Tells how to make Records and how to shave Cylinders.  
Describes the new Spring Motor and the new Slot Device.  
Advises as to Supplies and Glasses.  
All about Batteries.  
Instructions in plain language, easily understood.  
Invaluable to every user, and only complete work on the subject. Price \$1.00 by postage prepaid to every part of the world. Code words English edition, *Accedentes*; Spanish edition, *Accedentes*.

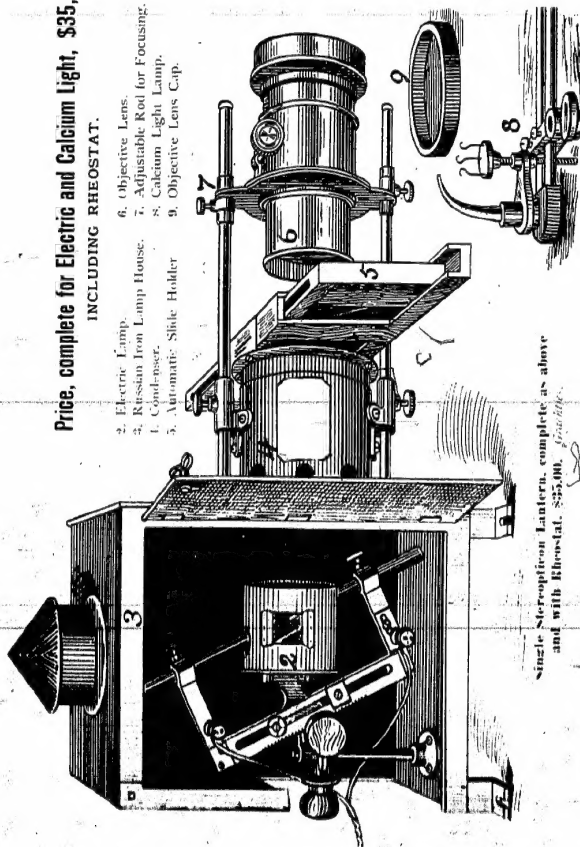
## STEREOPTICON LANTERN

If these wishing a stereopticon lantern for showing slides only we offer our special lantern for either electric, acetylene or acetylene light, as shown on the opposite page, price complete including electric lamp and cable, \$14.00. Our regular acetylene gas light outfit, shown on the opposite page, can also be used successfully with this lantern.

Slides and slides printed in German, French, Italian, Spanish, etc. Write for catalogue of complete outfit.

30 In Telegraphing Orders use the Code Words in Italics

Price, complete for Electric and Calcium light, \$35,  
INCLUDING RHEOSTAT.



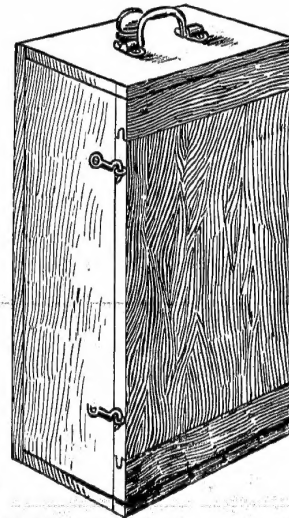
Single Stereopticon Lantern, complete as above  
and with Rheostat, \$25.00, *frankly*.

- 1. Electric Lamp.
- 2. Russian Iron Lamp House.
- 3. Condenser.
- 4. Automatic Slide Holder.
- 5. Objective Lens Cap.
- 6. Objective Lens.
- 7. Adjustable Rod for Focusing.
- 8. Calcium Light Lamp.
- 9. Objective Lens Cap.

In Telegraphing Orders use the Code Words in Italics

31

Case in which the Mechanism of 1899 Model Cineograph  
and Stereopticon Combined is shipped.



The case shown in the engraving above is made compact and strong,  
being composed of hard wood with a walnut finish, and  
polished brass handles. The case is an extra pro-  
tection for the mechanism of the Cineo-  
graph, preventing dust, etc., being  
done thereto while in  
transportation.

D. O. P.

32 In Telegraphing Orders use the Code Words in Italics

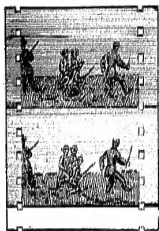


FIG. 1

Fig. 1 and 2 show how to prepare film when necessary to repair, or to join two or more.

Fig. 3. Film Repairer, made of solid brass, nickel-plated. Price One Dollar. *Patent.*

Fig. 4. how Film when joined.



FIG. 2



FIG. 4

The above illustrations show how to prepare and join films when it is desired to run them on reels, or to join them when the ends become separated.

#### DIRECTIONS

1. Cut the film about 1/4 inch from the LOWER line of one of the pictures (Fig. 1). Cut the other end of film to the extreme TOP of the picture. The 1/4 inch on the end is necessary to make the lap. Measure with the tongue the end on which the 1/4 inch has been cut, and scrape off the emulsion to the line of the adjoining picture with a pocket knife, as Fig. 1. The whole piece on Fig. 2, which should be about 1/4 inch long, and is part of another picture, show where the emulsion has been scraped off. This is where the cement should be placed. Be sure to spread the cement in equal proportions on the film. The thickness of the film, the emulsion, etc.

2. Lay Fig. 1 on light of the Film Mender, Fig. 3, and apply the cement with a camel-hair brush. Then lay Fig. 2 on the opposite side of the mender, and press the films together, and the cement dries, they are joined for a permanent and the cement will show as a dark line.

3. Follow the above directions with the second piece of film, and presto! You are ready to project, knowing that the joint will be exactly as good as before the

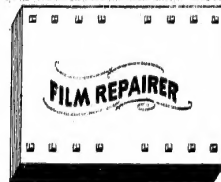
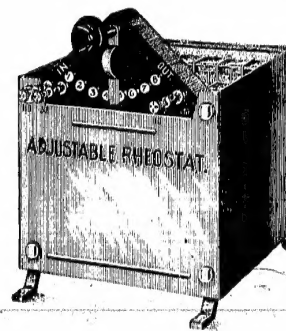


FIG. 3

#### The New Attachments Furnished with the 1899 Model Cineograph and Stereopticon Combined



#### IMPROVED Adjustable Rheostat

COMPACT HANDSOME  
SERVICEABLE AND  
RELIABLE

Adapted to any current. Occupies less space than any other Rheostat on the market. The Lever Adjustment is a Controller, by means of which the current can be regulated, making the light strong or weak, or by means of which the current can be increased or decreased. The Rheostat is made on the most approved scientific principle, is compact, well made, and contains the highest grade of Resistance Wire. The design is combined with safety, to prevent any possibility of short circuit, and is therefore thorough, far proof.

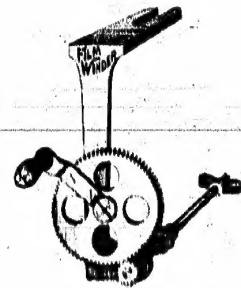
#### OUR OWN

#### NEW AND

#### SPECIAL

#### FEATURE

ONLY TO BE FOUND



#### '99 MODEL

## A hand-drawn sketch of a rectangular frame. The left vertical side is labeled "15 Ft." and the bottom horizontal side is labeled "18 Ft.". The corners of the frame are decorated with what appear to be small, stylized figures or plants. The drawing is done in a simple, sketchy style with vertical and horizontal lines forming the background.

Only Wed. 6:50 p.m.

At Auburn, the library holdings of *Phrynosoma* are:

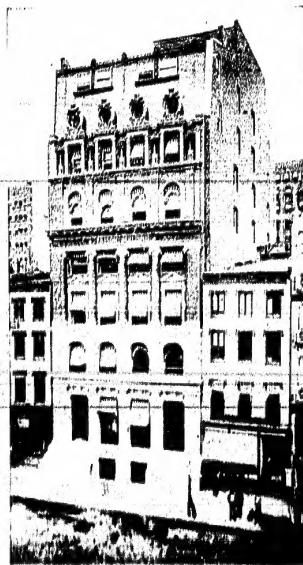
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THE WESTERN UNION TELEGRAPH AND CABLE COMPANY  
AND THE FRENCH TELEGRAPHIC CABLE COMPANY  
HAVE WIRES DIRECT TO OUR BUILDING.

WE ARE CONNECTED WITH LOCAL  
AND LONG-DISTANCE TELEPHONE

CALL 151C BROAD



THE FIRST FLOOR OF OUR BUILDING WAS  
OCCUPIED BY THE FRENCH CABLE COMPANY. THE SECOND  
FLOOR WAS OCCUPIED BY THE WESTERN UNION TELEGRAPH  
COMPANY. THE THIRD FLOOR WAS OCCUPIED BY THE  
FRENCH CABLE COMPANY. THE FOURTH FLOOR WAS  
OCCUPIED BY THE WESTERN UNION TELEGRAPH COMPANY.